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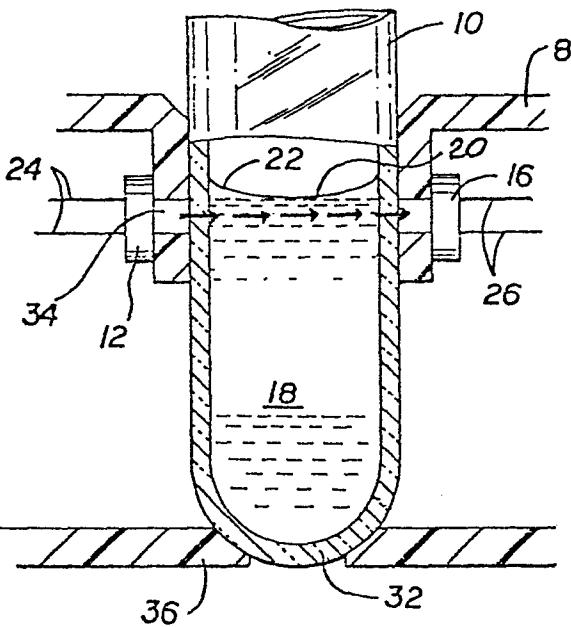
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## (54) Liquid level measurement apparatus.

(57) An apparatus for measurement of a column of substantially transparent liquid (18), or for the detection of the presence or absence of the substantially transparent liquid at a selected level, in a transparent, substantially cylindrical tube (10) is disclosed. A light source (12) directs light across the cylindrical axis of the tube. Opposite the light source with respect to the cylindrical axis of the tube is located light sensor means (16) capable of distinguishing between light focused by the substantially transparent liquid when the liquid is present at the sensor level, and light diffused by the empty tube when the substantially transparent liquid is not present. An array of sensors provides the capability of measuring the column of liquid quantitatively.





EUROPEAN SEARCH REPORT

0185285

Application number

DOCUMENTS CONSIDERED TO BE RELEVANT			EP 85115619.0
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	DE - A1 - 2 855 651 (BAYER) * Totality *	1-4	G 01 F 23/22
Y	---	5, 6	
Y	DE - A - 1 573 100 (SCHMID) * Claims; fig. *	5	
Y	---		
Y	DD - A - 150 648 (VEB ZEMENTAN- LAGENBAU) * Fig.; claims 2,3 *	6	
Y	---		
Y	US - A - 4 084 426 (GALES) * Fig. *	6	
Y	---		
X	DE - A1 - 2 940 799 (HANSMANN) * Fig. 1-3 *	1, 3	TECHNICAL FIELDS SEARCHED (Int. Cl.4)
A	-----	2, 6	G 01 F 23/00
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
VIENNA	23-01-1987	GRONAU	
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone		T : theory or principle underlying the invention	
Y : particularly relevant if combined with another		E : earlier patent document, but published on, or after the filing date	
A : technological background		D : document cited in the application	
O : non-written disclosure		L : document cited for other reasons	
P : intermediate document		& : member of the same patent family, corresponding document	